

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.


Listing of Claims:

1. (original) A power generation system for supplying power to an external load, comprising:
 - (a) a fuel cell characterized by operating parameters that are controllable to control output power provided by the fuel cell;
 - (b) a switch coupled to an output of the fuel cell;
 - (c) an energy storage device coupled to the output of the switch; and
 - (d) a controller coupled to the fuel cell and switch, wherein the operating parameters and switch are controllable to control the output power provided from the fuel cell to ^{the} energy storage device.
2. (original) A system as recited in claim 1, further comprising an internal auxiliary load, wherein the energy storage device is configured to provide power to the internal auxiliary load without said power being provided through a power conditioner that is also providing external load power.
3. (currently amended) A system as recited in claim 1, further comprising a power conditioner coupled to the output of ~~the~~ a battery.
4. (original) A system as recited in claim 1, wherein the energy storage device is a battery.
5. (original) A system as recited in claim 1, wherein the energy storage device is a capacitor.
6. (original) A system as recited in claim 1, wherein the fuel cell operating parameters include temperature.

7. (original) A system as recited in claim 1, wherein the fuel cell operating parameters include air flow.

8. (original) A system as recited in claim 1, wherein the fuel cell operating parameters include fuel concentration.

9. (original) A system as recited in claim 1, wherein the fuel cell operating parameters include air pressure.



10. (original) A system as recited in claim 1, wherein the fuel cell operating parameters include fuel pressure.

11. (original) A system as recited in claim 1, wherein the power conditioner comprises an inverter.

12. (original) A system as recited in claim 1, wherein the power conditioner comprises a dc-to-dc converter.

13. (currently amended) A system as recited in claim 4, wherein the maximum output voltage of the fuel cell when the fuel cell can produce a non-negligible amount of power is near or below ~~the~~ a nominal battery voltage.

14. (original) A method for operating a power generation system for supplying power to a load, the power generation system including a fuel cell characterized by operating parameters that are controllable to control output power provided by the fuel cell, a switch coupled to an output of the fuel cell, and an energy storage device coupled to the output of the switch, comprising: holding the voltage at the output of the switch nearly constant with the energy storage device; and controlling the switch and operating parameters of the fuel cell to control the output power provided from the fuel cell to the energy storage device.

15. (currently amended) A method as recited in claim 14, wherein the energy storage device is used to provide power to an internal auxiliary load and an external load without said an internal auxiliary power being provided through a power conditioner that also provides power to the external load.

16. (original) A method as recited in claim 14, wherein a power conditioner provides power from the energy storage device to an external load.

17. (original) A method as recited in claim 14, wherein the energy storage device is a battery.

18. (original) A method as recited in claim 14, wherein the controlled fuel cell operating parameters include temperature.

19. (original) A method as recited in claim 14, wherein the controlled fuel cell operating parameters include air flow.

20. (original) A method as recited in claim 14, wherein the controlled fuel cell operating parameters include fuel concentration.

21. (original) A method as recited in claim 14, wherein the controlled fuel cell operating parameters include air pressure.


22. (original) A method as recited in claim 14, wherein the controlled fuel cell operating parameters include fuel pressure.

23. (original) A method as recited in claim 16, wherein the power conditioner comprises an inverter.

24. (original) A method as recited in claim 16, wherein the power conditioner comprises a dc-to-dc converter.

25. (original) A method as recited in claim 17, wherein the maximum output voltage of the fuel cell when the fuel cell can produce a non-negligible amount of power is near or below the nominal battery voltage.

26. (currently amended) A power conversion system for supplying power to an external load, comprising:

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- (a) a fuel cell characterized by operating parameters that are controllable to control output power provided by the fuel cell;
 - (b) a switch coupled to an output of the fuel cell;
 - (c) an energy storage device coupled to the load, wherein the energy storage device is configured to provide power to ~~the~~ an internal auxiliary load without said power being provided through ~~the~~ a power conditioner; and
 - (d) a controller coupled to the fuel cell and switch, wherein the fuel cell's operating parameters and the switch are controllable to control the output power provided from the fuel cell.

27. (original) A system as recited in claim 26, further comprising a power conditioner comprising an input coupled to the switch and an output for providing power to the load.

28. (original) A system as recited in claim 27, further comprising an internal auxiliary load, wherein the voltage at the input to the power conditioner is held nearly constant by the energy storage device, and wherein the energy storage device is configured to provide power to the internal auxiliary load without said power being provided through the power conditioner.

29. (original) A system as recited in claim 26, wherein the energy storage device is a battery.

30. (original) A system as recited in claim 26, wherein the energy storage device is a capacitor.

31. (original) A system as recited in claim 26, wherein the fuel cell operating parameters include temperature.

32. (original) A system as recited in claim 26, wherein the fuel cell operating parameters include air flow.

33. (original) A system as recited in claim 26, wherein the fuel cell operating parameters include fuel concentration.

34. (original) A system as recited in claim 26, wherein the fuel cell operating parameters include air pressure.

35. (original) A system as recited in claim 26, wherein the fuel cell operating parameters include fuel pressure.

36. (original) A system as recited in claim 27, wherein the power conditioner comprises an inverter.

37. (original) A system as recited in claim 27, wherein the power conditioner comprises a dc-to-dc converter.

38. (original) A system as recited in claim 26, wherein the maximum output voltage of the fuel cell when the fuel cell can produce a non-negligible amount of power is near or below the nominal voltage of the energy storage device.